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*BULLETIN OF THE
GEORGIA
SCHOOL OF
TECHNOLOGY*

ATLANTA

JULY 1918



VOL. XV

NO. 3

F. P. SMITH

· BULLETIN OF THE ·

Volume XV.
Number III.

Atlanta, Ga.
July - 1918



Photo by
FRANCIS E. PRICE
Constitution Bldg.
Atlanta, Ga.

THESE GEORGIA TECH STUDENTS, MEMBERS OF THE RESERVE OFFICERS' TRAINING CORPS, ARE RECEIVING A COMBINED TECHNICAL AND MILITARY TRAINING, WHICH IS PREPARING THEM FOR EFFICIENT AND EXCEPTIONAL SERVICE TO THEIR COUNTRY

· BULLETIN OF THE ·

GEORGIA SCHOOL OF TECHNOLOGY

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Foreword



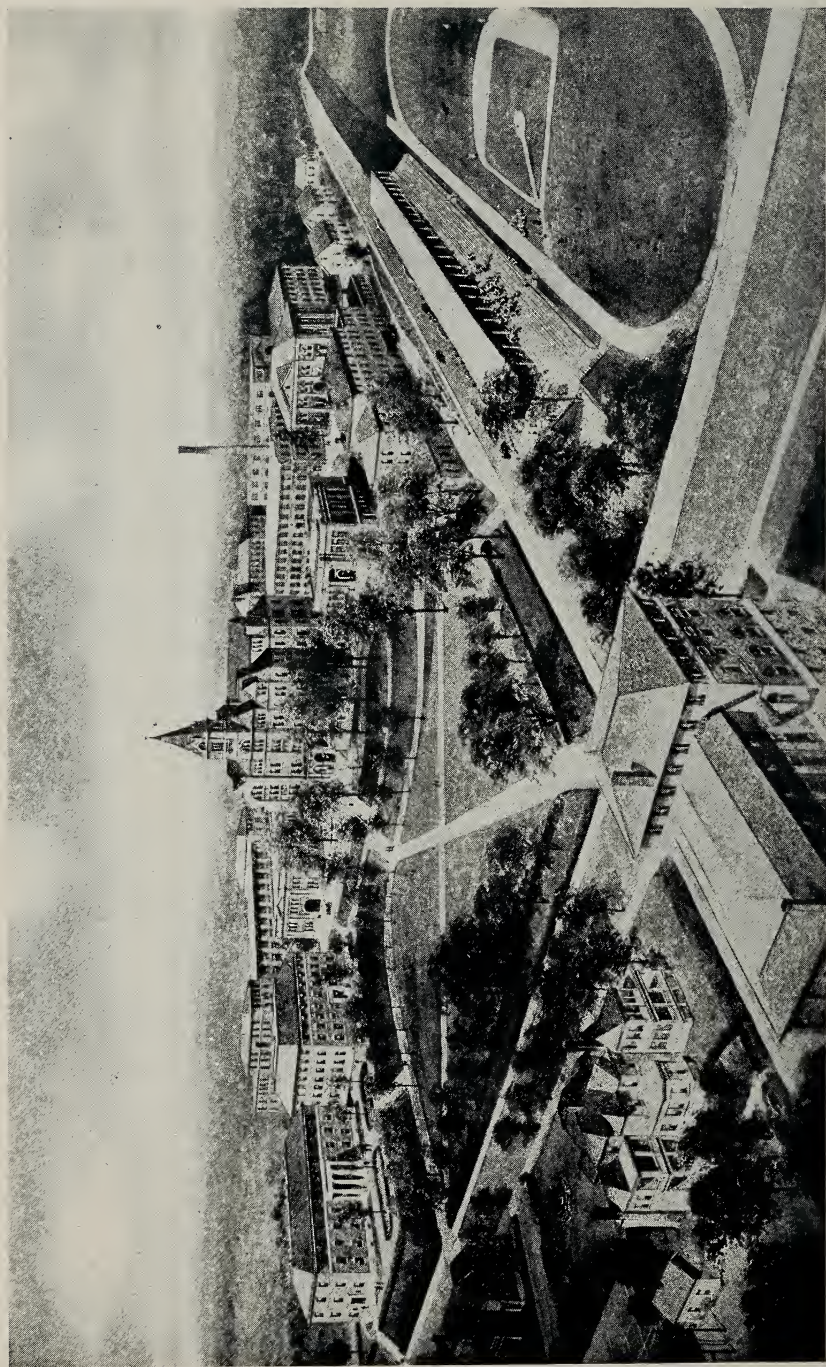
AT A TIME like this, when we are in the very midst of a great world-crisis, and all the intellectual and physical forces of the nation are being directed, or should be directed, toward ultimate victory for the allied armies, our schools and colleges must modify their aims and their courses to suit the needs of the hour, and must leave nothing undone in their efforts to furnish the Government with men who are equipped for efficient and exceptional service. The Georgia School of Technology is only one of many institutions which are striving to live up to their possibilities and to prove their worth to the nation in time of war, as they have proved it in time of peace.

It is natural that in this Bulletin, which is being published in July, 1918, special emphasis should be placed on the military activities and war work of the institution. It must be borne in mind, however, that there has been no abatement of the work of the regular courses. There are offered as usual the full courses leading to the degree of B.S. in Mechanical, Electrical, Civil, Chemical and Textile Engineering, Chemistry, Architecture, and Commerce. Two-year courses are offered in Architecture and Textile Engineering. Those who desire further information will find it in the general catalog, which may be had by anyone who will make application. A statement in regard to entrance requirements and fees will be found on the last page of this Bulletin.

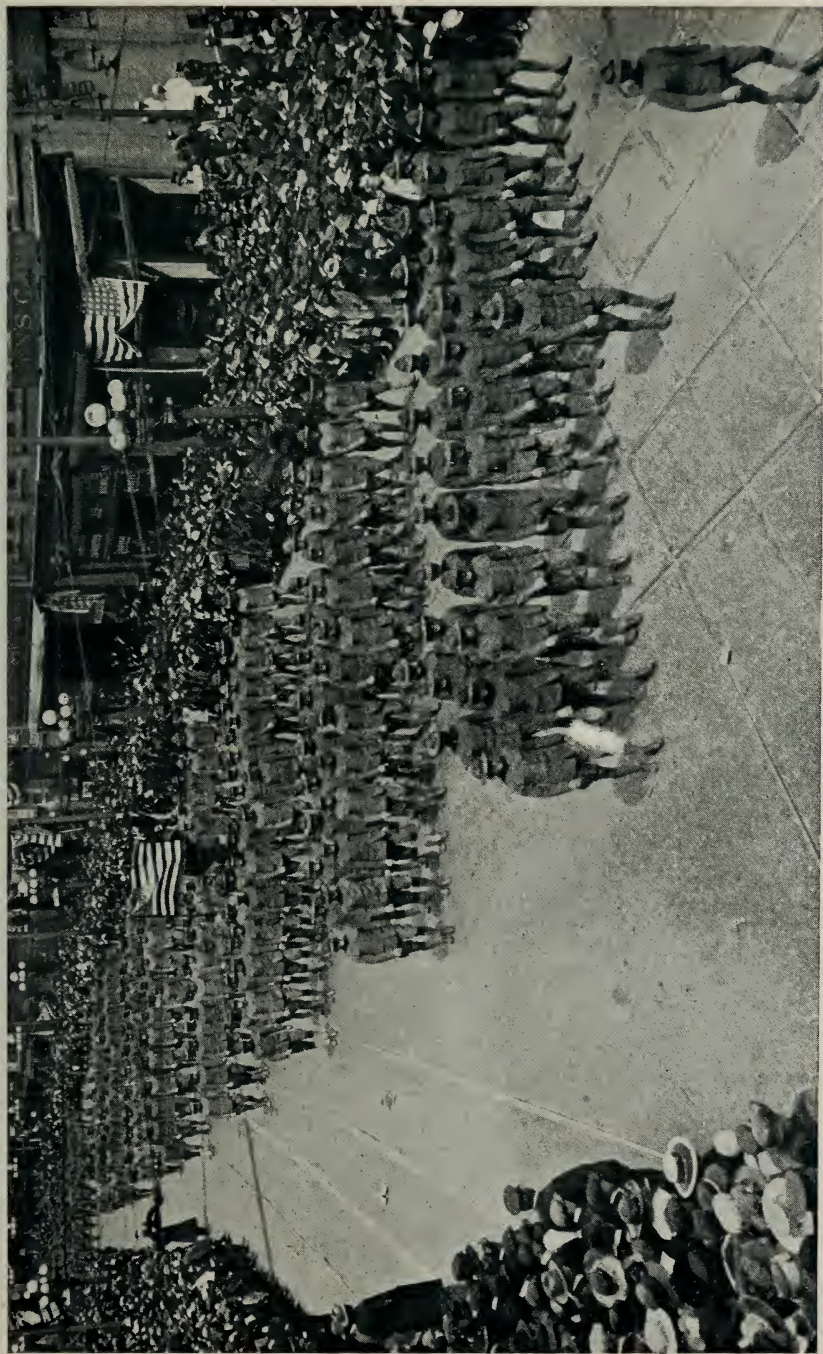
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Bird's-eye View of The Georgia School of Technology.



Georgia Tech. Battalions in Liberty Loan Parade.

WAR WORK AT THE GEORGIA SCHOOL OF TECHNOLOGY.

In the spring of 1917, soon after the declaration of war, the Board of Trustees of the Georgia School of Technology offered the facilities of the institution to the Government to be used for whatever emergency war-work might be deemed necessary in the national crisis. The Government, realizing that the Great War is being fought and will be won by Science, and that the supply of technically trained men must be increased rather than diminished, has urged the Georgia School of Technology and similar institutions to continue their work without interruption and to enroll as many students as possible in the various courses. General Leonard Wood, in his address at the commencement exercises at the Georgia School of Technology, June, 1917, voiced the sentiments of the War Department in these words:

"It is particularly important that the work at our technical schools should continue unabated in order that the supply of trained men may be kept up from year to year, and men of this type made available for service in the different lines of technical work which modern war demands on the fighting line and in the ship-yards, factories, chemical works, steel plants and other industries whose efficient administration and conduct is vital to the fighting strength of the nation."

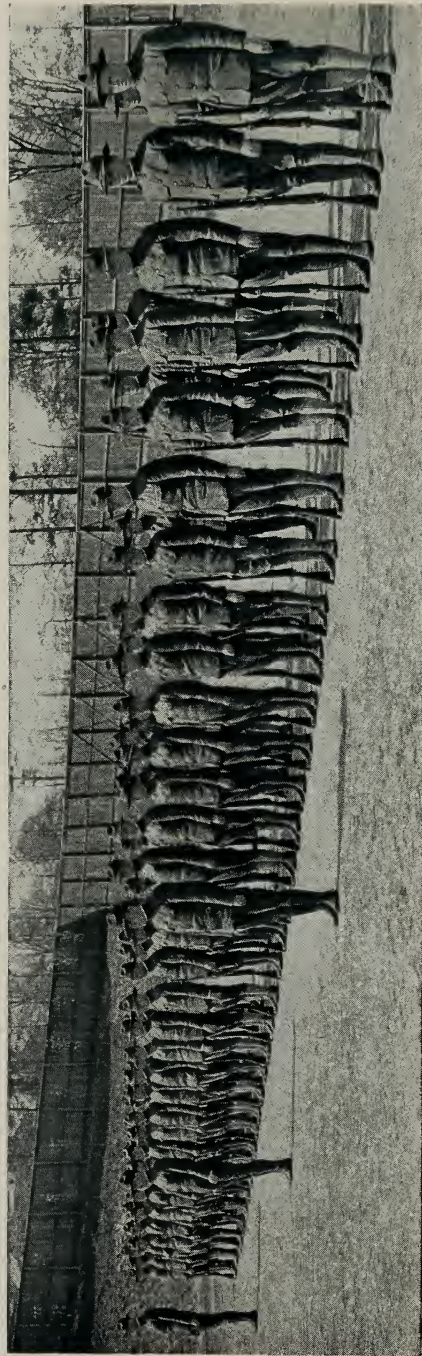
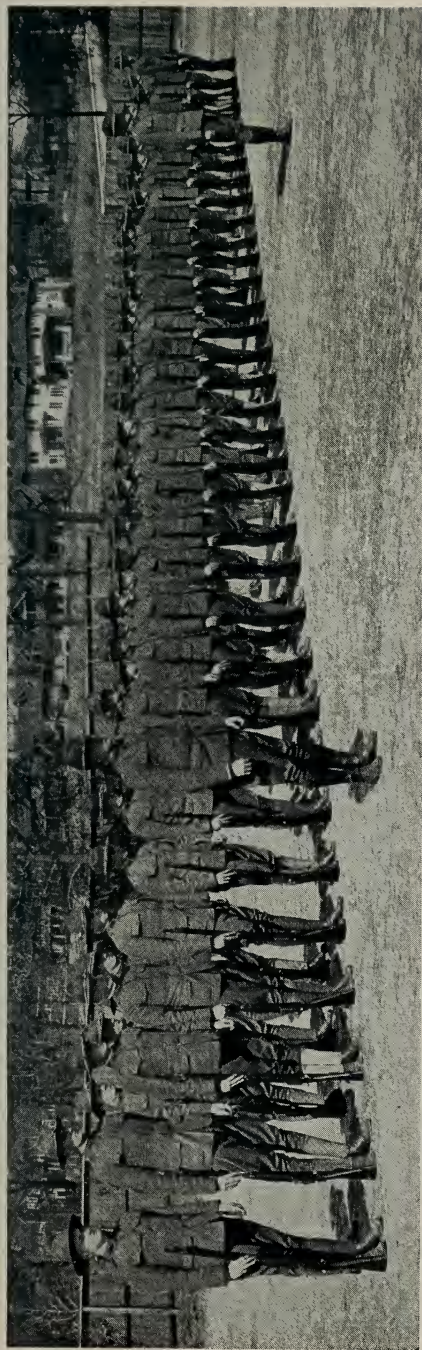
Even though the Government has accepted the offer of the Trustees of the School, and has established here several branches of Emergency War Work, as explained below, the regular courses have continued without interruption and with a larger enrollment than ever before in the history of the institution.

MILITARY TRAINING.

General Value of Military Training.

It is being more and more recognized that a course of military training and discipline is essential in any well-rounded course of education and is of the utmost value in instilling principles and ideas so necessary to the upbuilding of American manhood.

The first draft has shown that an appalling number of young Americans in their prime are under-developed and physically deficient. To a large degree military drill and athletics supply the tonic needed to enable the young man to meet the exacting demands of modern life. The military training also affords a mental discipline and practice in principles that find a wide application in every line of endeavor. Leadership in every field demands more and more the very qualities that are usually considered as the prime virtues of the soldier. The very principles of discipline, loyal subordination to constituted authority and adaptability to surroundings lie at the foundations of success in almost every calling of today.



Two of the Eight Companies of the Cadet Battalions.

If the principles of organization and discipline are well learned the student should feel, and in future will probably acknowledge that the time spent in the military course was well spent. In spite of the refinements of modern war and the demand for specialists the primary training of the soldier is still as important as ever to his future success.

Reserve Officers' Training Corps.

Military training for regular students was begun at the Georgia School of Technology in April, 1917. Soon after the opening of the 1917-18 session a complete military organization was effected, and Lieut. Col. E. W. Hubbard, U. S. A., was assigned to this post by the War Department as Commandant. Military training of five hours a week was required of all students throughout the year. During the session, application was made for the establishment of a Reserve Officers' Training Corps, Senior Division. This application was granted and R. O. T. C. units in Signal Corps and Coast Artillery were established, both of which especially fit in with the engineering and scientific work of the School, so that a student's work in other departments contributes directly to rating in the military department. Application has since been made for an Infantry Unit, and this, in all probability will be established before the opening of the 1918-19 session. Under the present R. O. T. C. organization, as directed by the War Department, there will be required a minimum of three hours a week for all students, and five hours a week for students who have completed the basic military course and are taking the advanced course leading to a commission in the Officers' Reserve Corps. It is clear from the above that the Georgia School of Technology is in a position to offer unusual advantages to those students who desire to qualify for the special technical branches of the service. This combined technical and military training gives the student the best possible preparation for valuable and efficient service to his country.

All students, citizens of the United States, who are taking the military course will receive a commutation of \$14.00 to assist them in paying for the necessary uniform. Those who are taking the advanced course will be allowed in addition \$9.00 monthly commutation of subsistence.

R. O. T. C. Summer Camps.

The Government has established a number of summer military training camps for college students, who are given intensive training at the expense of the Government for a period varying from one to three months. In selecting students for these camps preference has been given to those institutions which have the R. O. T. C. organization.



Cadet Battalion Being Reviewed by President Matheson.



Members of The Engineer Enlisted Reserve Corps.

SPECIAL GOVERNMENT WAR WORK.

Aviation Schools.

The Georgia School of Technology had the high honor of being selected by the War Department for the establishment of a Ground School of Military Aeronautics, popularly known as an Aviation School. This School was opened on July 5, 1917. From this date till January 12, 1918, the course covered preparatory instructions for Aerial Pilots. The course for Pilots was followed by a special curriculum for training Supply Officers for Aviation Squadrons which continued till May 11, 1918.

Government Training Detachment.

On June 15, 1918, the Government established at Georgia Tech a School for Technicians. The men who were detailed to this school were those who had signified their desire to be assigned to certain mechanical branches of the service, including Operation of Auto Trucks, Auto Repair Work, Radio Work, Electrical Work, Machine Shop Work, and Carpentry. Courses of eight weeks were given in each of the above subjects.

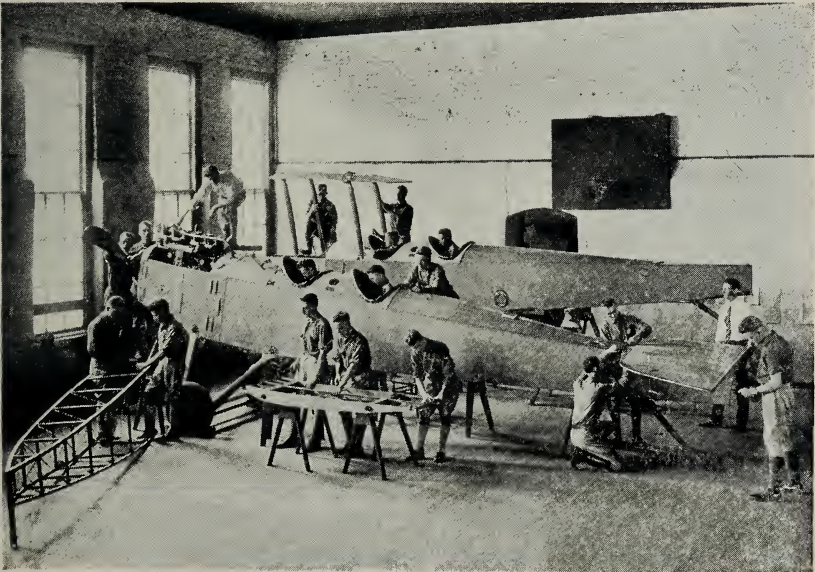
Course in Radio Communication.

During the past year there has been established at this School a course in Radio Communication to train men for service in the Radio Division of the Signal Corps of the United States Army. This course is given under the direction of the Signal Corps which supplies the necessary apparatus, and, aside from giving the outline of instruction, also supplies material for instructing the students in the most advanced methods of Radio as applied at the present time in Army work. Senior students and graduates in the Electrical Engineering Course are eligible to take this work as well as senior students and graduates in the other courses who have the proper qualifications. On successful completion of this special course, students have opportunity to enroll in an Army Radio School and subsequently become Radio Officers.

In addition to the above, special night courses have been given to men of draft age who wished to fit themselves for this branch of the service before being ordered to report for duty.



Squadron of Pilots in School of Military Aeronautics.



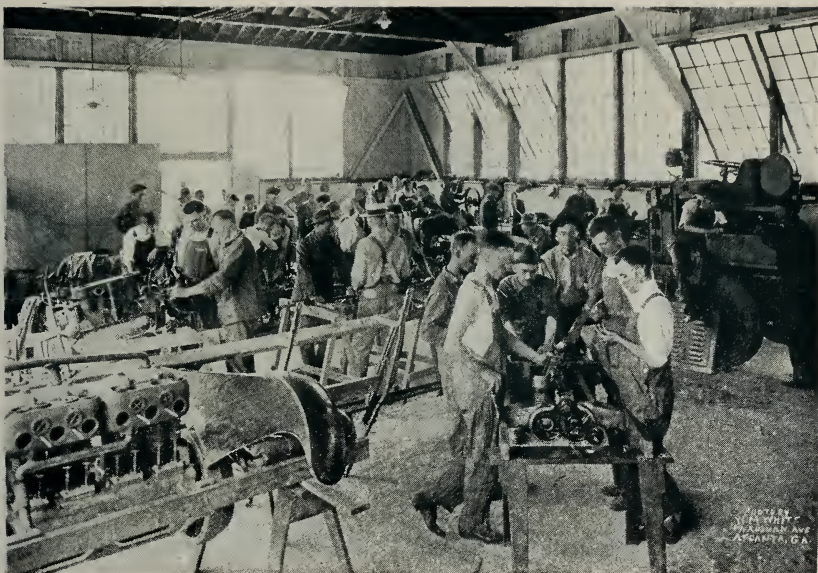
Class in Rigging—School of Military Aeronautics.



A Battalion in School of Military Aeronautics.



Class in Radio—Government Training Detachment.



Automobile Mechanics—Government Training Detachment.



Section of Motor Truck Division—Government Training Detachment.

OPPORTUNITIES FOR TECHNICAL GRADUATES.

Graduates of the Georgia School of Technology were in great demand for civil employment before the war began, and since that time the demand both for civil and military service has increased to a remarkable degree. They have been sought for many positions of responsibility in the best branches of military service—in the Engineering Corps, in Coast Artillery, Field Artillery, Signal Corps, Marine Engineering, Chemical Service, and other branches in which technical knowledge is demanded.

ALUMNI IN SERVICE.

Although a comparatively young institution, with an enrollment which, until recent years, has not been large, Georgia Tech has over one thousand former students in War Service. Of the graduates, alone, over 35 % are in active service, and 80 % of these are commissioned officers. One recent class has furnished already 45 commissioned officers.

FACULTY MEMBERS IN SERVICE.

Since the beginning of the war a number of the members of the faculty of the Georgia School of Technology have, by leave of absence or resignation, entered some form of active War Service. About March 1, President K. G. Matheson was granted a leave of absence for six months to accept an important post in the overseas work of the Army Y. M. C. A. Professors H. P. Wood, J. N. G. Nesbit, and R. R. Kirk are in the Engineer Corps, Ordnance, and Ambulance respectively. Dr. W. A. Jackson is in the Medical Corps. Messrs. Alexander, Clay, Burrowes, G. H. McKee, Weems, and Sparks are in various branches of the Service. This list does not include those members of the Faculty who are giving a part or all of their time to the war work which is being conducted at the School.

MISCELLANEOUS WAR WORK.

In addition to the War Work outlined on the foregoing pages the Georgia School of Technology has had the privilege of doing a considerable amount of work for the Government in the shops and laboratories. In this connection should be mentioned a special course in Auto-trucks given to Artillery Officers from Camp Gordon.

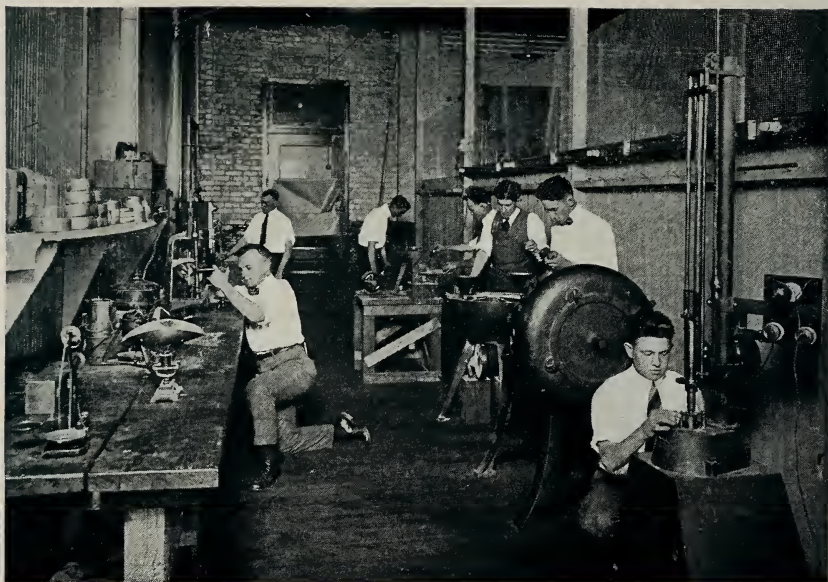


Department of Architecture.

**Design Winning First Prize in Southern Intercollegiate Competition.
Georgia Tech Seniors have won all prizes in four of the five competitions
which have been held.**



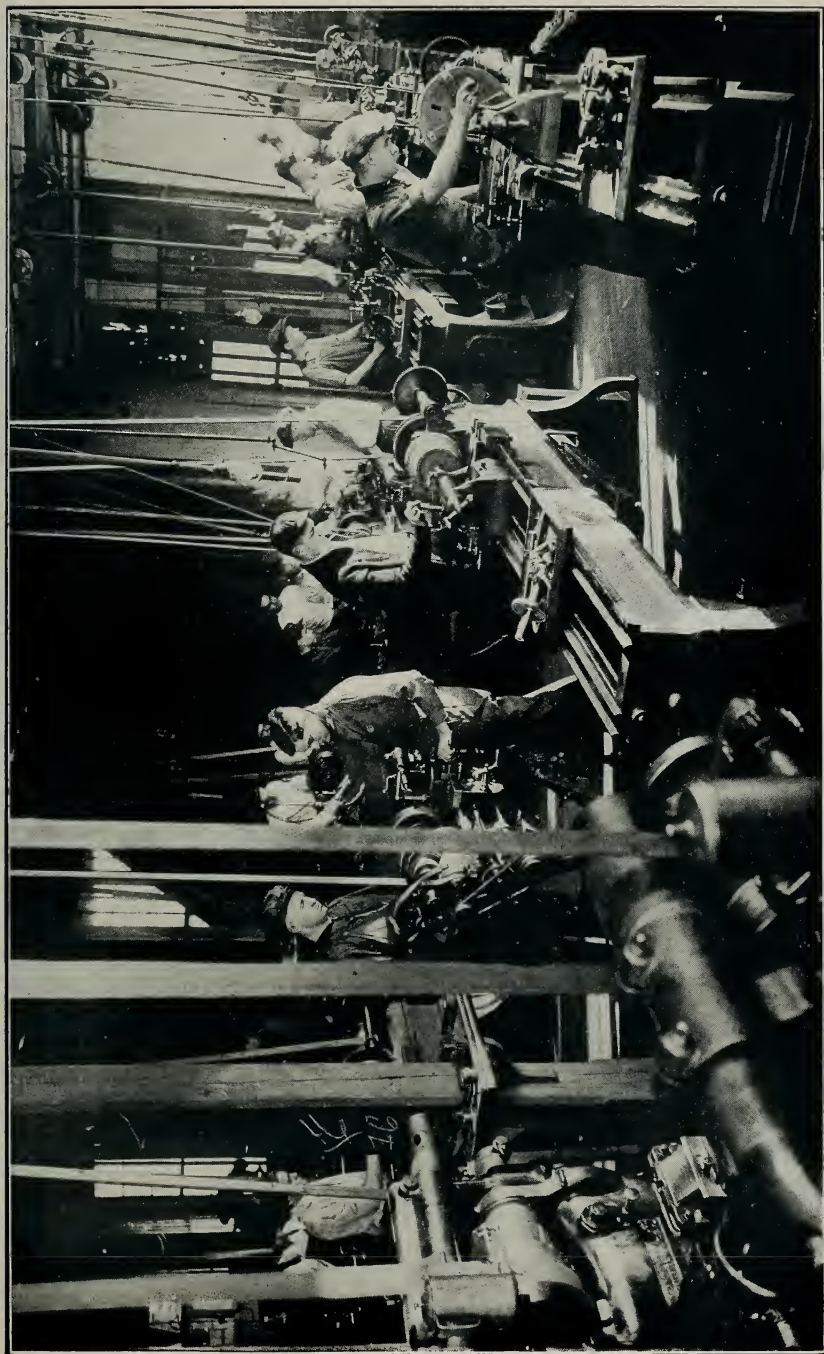
Department of Chemistry—Senior Laboratory.



Department of Civil Engineering—Section of Highway Laboratory.



Electrical Engineering Laboratory.



Department of Mechanical Engineering.
Sophomores Doing Practical Work in Machine Shop.



Department of Textile Engineering.
The A. French Textile School.



View of Front of Campus, Looking East from Swann Dormitory.



Students at Work on Complete Duplicate of 3-inch Gun, Made in School Shops and Used in Artillery Drill.



The Whitehead Memorial Hospital.



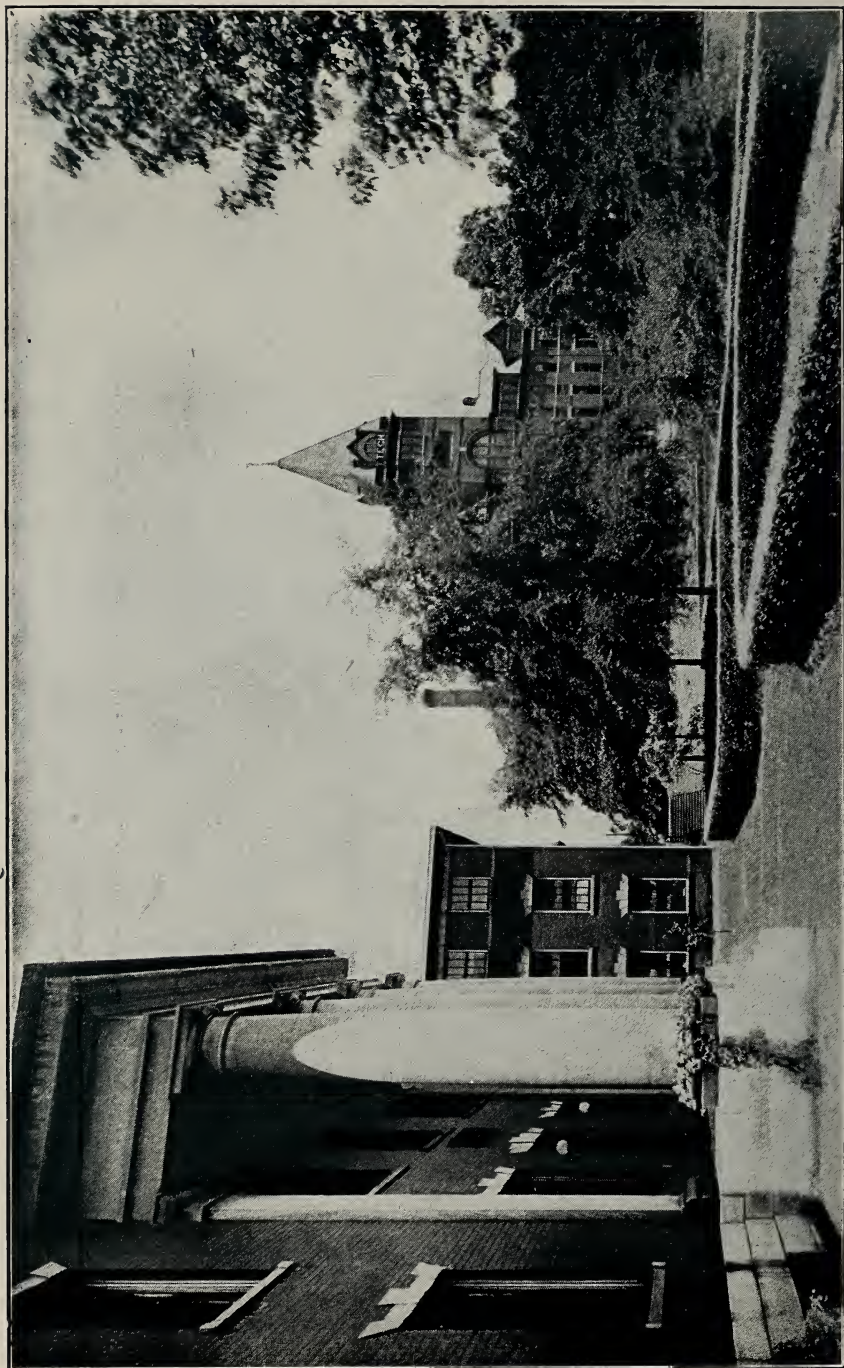
Lobby of Rockefeller Y. M. C. A.



The Student Honor Court.



The Junior Class.



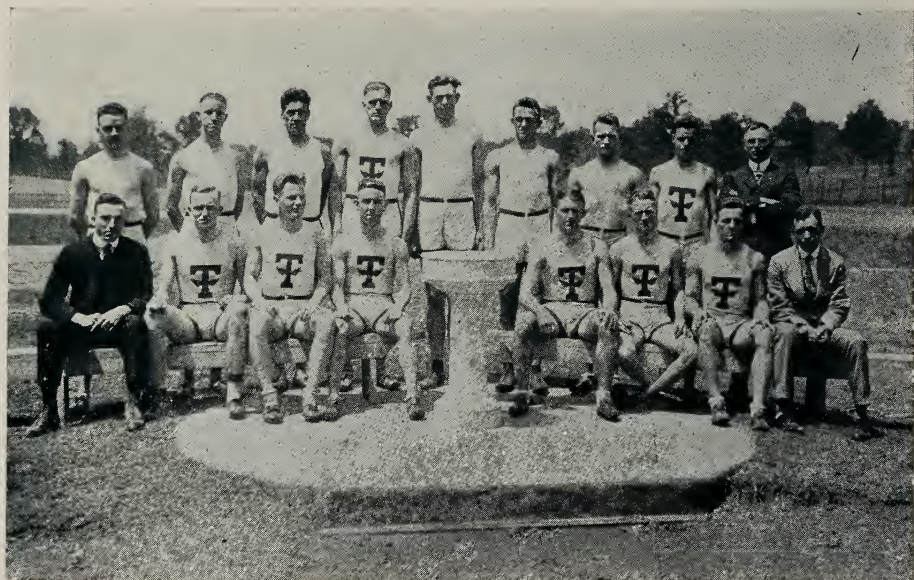
West Side of Campus.



Staff of 'The Technique', The College Newspaper.



The Carnegie Library.



Track Team—Winner of Every Meet Entered.



Start of the Annual Cross-Country Run.



"The Golden Tornado"—Champions of the United States.
 Nine of these men are now in Service.

ENTRANCE REQUIREMENTS.

The requirements for admission to the Georgia School of Technology are as follows:

The applicant must be at least 16 years of age, and he must present a certificate from the last school he attended, showing his scholastic record, and that he is of good moral character.

He must present also, by certificate of graduation from an accredited school or by examination, 14 units of high school work, and no applicant may be conditioned in more than two units. The following units are specified:

English	3	Solid Geometry	1½
Algebra	2	History	1
Pl. Geometry	1	Physics or Chemistry	1

The remaining five and one-half units may be made up from any regular high school subjects in addition to those listed above.

TUITION AND FEES.

For students whose parents are legal residents of Georgia, and who hold county scholarships, the fees are:

<i>First Term</i>	<i>Second Term</i>
Semi-annual fee\$12.50	Semi-annual fee\$12.50
Student Activities ... 6.50	Student Activities .. 6.50
Medical fee 5.00	Medical fee 5.00
Deposit for damage.. 5.00	
<hr/>	<hr/>
\$29.00	\$24.00

Georgia students who do not hold county scholarships will add \$12.50 per term, and students whose parents are not legal residents of Georgia will add \$50.00 per term to the above charges.

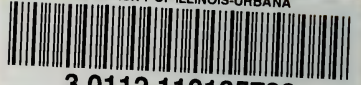
All new students are required to deposit \$30.00 on entrance to cover cost of the necessary uniform.

Freshmen who do not reside with their parents are required to live in the dormitories. Board and room in the dormitories, including laundry, heat, and lights, is furnished at present at \$25.00 per month, payable in advance. Living expenses of students outside of the dormitories vary from \$225 to \$350 for the year.

For catalog or other information, address.

THE REGISTRAR, Georgia Tech, Atlanta, Ga.

UNIVERSITY OF ILLINOIS-URBANA



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